

(February 5, 2001)

Barrier Drums

Barrier drums shall be manufactured specifically for traffic control purposes, and shall be fabricated from impact resistant, UV stable, low density polyethylene that will maintain its integrity upon impact.

The barrier drums shall meet the following general specifications:

Total height	550 mm, \pm 25 mm
Cross-section	hollow oval 250 mm X 350 mm, \pm 25 mm
Formed support legs length.	330 mm, \pm 25 mm
Space between legs (taper to fit conc. barrier)	158 mm min.
Mass	15 kg \pm 2 kg with legs filled with sand.
Color	Fade resistant safety orange.

Barrier drums shall have three 100-mm reflective white stripes, (one complete and two partial), of either 3M flexible 3810, Reflexite PC 1000, 3M Diamond Grade, or Avery Dennison W-6100.

Barrier drums shall be placed on temporary concrete barrier at the following approximate spacings and as shown in the plans:

Concrete Barrier Placement	Barrier Drum Spacing in Meters
Tangents 1 Kilometer or less ¹	0.6 times posted speed limit
Tangents greater than 1 km ¹	1.2 times posted speed limit
Tapers and Curves ²	0.3 times posted speed limit

¹ A minimum of 3 barrier drums should be used.

² A minimum of 5 barrier drums should be used.

Temporary concrete barrier reflectors and lateral clearance markers may be excluded from use when using barrier drums.

Both legs of the barrier drums shall be completely filled with sand. The top oval should not be filled.

When recommended by the manufacturer, barrier drums shall be treated to ensure proper adhesion of the reflective sheeting.

1 If approved by the Engineer, used barrier drums with new reflective
2 sheeting may be used, provided all barrier drums used on the project are of
3 essentially the same configuration.
4
5 Barrier drums shall be regularly maintained to ensure that they are clean
6 and that the barrier drum and reflective material are in good condition. If the
7 Engineer determines that a barrier drum has been damaged beyond use, or
8 provides inadequate relectivity, a new barrier drum shall be furnished.
9
10 When no longer required, as determined by the Engineer, barrier drums
11 shall remain the property of the Contractor and shall be removed from the
12 project.